Speech, Swallow, and Communication Series (3/3)

Presenters:

Jasmine Cload & AJ Hildebrand

Language, Cognitive Communication, and Technology

Speech, Swallow, and Communication Series

February 4th: Swallowing and Saliva Management

February 11th: Speech and Voice

February 18th: Language, Cognitive Communication, and Technology

Thank you!

Parkinson Society BC (PSBC)



Thank you!

Parkinson and Movement Disorder Clinic (PMDC)



Thank you!

Parkinson Wellness Project (PWP)



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Introductions Your Turn!

How many audience members have worked with a Speech Language Pathologist before?

Yes or No

Overview

- What is SLP?
- Parkinson Disease (PD) and SLP
- Language and Cognitive Communication
- Strategies
- Technology with A. J.
- Questions

Please note that content included in this presentation is for informational purposes only, and is not intended to replace or substitute professional medical advice, diagnosis, or treatment. Always seek the advice of a qualified health provider with any questions you may have regarding your individual circumstance or condition.

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What is SLP?

What is SLP?

Google

speech language pathologist







Speech-Language Pathologists ... friendshipcircle.org

Being A Speech-Language Pathologist thetravelingtraveler.com



5 Reasons Why Speech & Language Therapy ... friendshipcircle.org











SEMI SPEECH IS SCOUTING ... semispeech.com

How Does a Speech Language Pathologis... speechandot.com

Autism Certification for Sp... ibcces.org

Speech Language Pathologist in Calga... speechpathologistcalgary.com



Celebrate Speech-Language Pathologists ... rn.com



10 Qualities that Every Speech Language ... friendshipcircle.org



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What is SLP?

Google

speech language pathologist



















Celebrate Speech-Language Pathologists ... rn.com



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What is SLP?

Scope of Practice

- Speech sound production
- Resonance
- Voice
- Fluency
- Feeding and swallowing
- Saliva management
- Language comprehension and expression
- Cognitive communication
- Alternative and augmentative communication
- Social (pragmatic) communication
- Pre-linguistic communication
- Pre-literacy and literacy skills
- Aural (re)habilitation
- Accent modification
- Technology and software

Areas of Work

- Hospitals
- Public health units
- Community health centres
- Schools
- Private practice
- Nursing homes and long-term care facilities
- Childcare settings
- Patient or client homes
- Corporate settings
- Correctional facilities
- Professional associations
- Regulatory bodies
- Universities and colleges
- Government ministries

(Speech-Language & Audiology Canada, 2016)

Parkinson Disease (PD) and SLP

People with PD can develop changes in

- Speech and Voice
- Swallowing
- Saliva Management
- Language and Cognitive-Communication

People with PD can develop changes in

Speech and Voice – 90%

(Baumann et al., 2018)

Swallowing – up to 95%

(López-Liria et al., 2020; Pflug et al., 2017)

Saliva Management – up to 81%

(Wamelen et al., 2020; Damian et al., 2012)

Language and Cognitive-Communication – up to 80%

(Hely et al., 2008)

People with PD can develop changes in

Speech and Voice – 90%

(Baumann et al., 2018)

Swallowing – up to 95%

(López-Liria et al., 2020; Pflug et al., 2017)

Saliva Management – up to 81%

(Wamelen et al., 2020; Damian et al., 2012)

• Language and Cognitive-Communication – up to 80% (Hely et al., 2008)

Everyone is different

"Speech and language therapy is essential to Parkinson patient's quality of life"

(Parkinson Canada, 2019)

Parkinson Canada www.parkinson.ca www.ParkinsonClinicalGuidelines.ca

APPENDIX 1: CANADIAN GUIDELINE FOR PARKINSON DISEASE, 2ND EDITION Language and Cognitive-Communication

Sections

- Introduction
- Cause
- Common Symptoms
- Strategies

<u>Motor</u> changes in PD

Motor changes in PD

Non-Motor changes too

(Papagno et al., 2018)

Thinking

Memory

Concentration

Planning...

(Papagno et al., 2018)

Thinking

Memory

Concentration

Planning...



(Papagno et al., 2018)









(Zgaljardic, Borod, Foldi, & Mattis, 2003)



Other Factors

Other Factors

Aging Medication Hearing Sleep Depression And more!

(Folmer et al., 2017; Weintraub, Tröster, Marras, & Stebbins, 2019)

Symptoms

Thinking and Communication



Symptoms

Thinking and Communication

Finding words

Understanding

Expression

More than words



(Papagno et al., 2018; Pell & Monetta, 2008; Saldert & Bauer, 2017; Smith, Ash, Xie, & Grossman, 2018)

Symptoms

Cognitive Communication



Example

Word at the "tip-of-your-tongue"


Collaborate with

health team



Memory joggers



Brain health

(Monteurro et al., 2019)



Ask for help



Strategies for the person with PD

- Visualize
- Synonyms and antonyms
- Describe
- Sound or letter
- Write
- Point or gesture

Strategies for the communication partner

- Environment
- Positioning
- Clear and respectful speech
- Consider response burden
- Consider your language
- Clarify and summarize

Resources

Resources

www.parkinson.bc.ca

COMMUNICATION & SWALLOW





www.parkinson.org





Resources

Access SLP

- Public
 - Physician or health professional referral
 - Movement Disorder Clinic
- Private
 - Speech and Hearing BC website

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References

Thank you! Now to AJ!





Communication Assistance for Youth and Adults

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Disclosure Statement

 No conflicts of interest or affiliation, financial or otherwise, in any of the products or services described or discussed in this presentation.



What is AAC?

Α	В	С	D		
E	F	G	Η		
Ι	J	Κ	L	Μ	Ν
0	Ρ	Q	R	S	Т
U	V	Ŵ	Χ	Υ	Ζ
Space		Oops		end	





How is your Pain Today?









What is AAC?



Augmentative and Alternative Communication

- AAC is a set of tools and strategies that an individual uses to solve everyday communication challenges.
- AAC is used in situations when individuals do not have adequate functional speech for communication.
- Communication can take many forms: speech, text, facial expressions, eye contact, touch, gestures, sign language, symbols, pictures, communication boards, speech generating devices, etc.





What is AAC?



- Everyone uses multiple forms of communication, based upon the context and communication partner.
- Effective communication occurs when the intent and meaning of a message from one individual is understood by another person. The form is less important than the successful understanding of the message.



AAC and Parkinson's

Α	В	С	D		Yes		Ne	New word	
Ε	F	G	Н		No		That is wrong		rong
I	J	К	L	M		N	Start again		ain
0	Ρ	Q	R	S	S T		l need the bathroom		
U	v	w	X	Y	Y Z		l am uncomfortable		
0	1	2	3	4	5	6	7	8	9

- I have a condition that affects my ability to speak
- I can understand what you say
- Please ask me yes / no questions
- I will use my communication cards to tell you what I want

l need personal care	I am thirsty	l am hungry
l need repositioning		I am in pair
I want to go to	l am cold	l am hot







AAC and Parkinson's





AAC and Parkinson's



 Text-to-speech (TTS), ABC/alphabet boards

Α	В	С	D		Yes		New word		
Ε	F	G	н		No		That is wrong		rong
I	J	К	L	M	M N ^{Start}		art ag	rt again	
0	Р	Q	R	S	S T		l need the bathroom		
U	v	w	X	Y	Y Z		l am uncomfortable		
0	1	2	3	4	5	6	7	8	9



AAC and Parkinson's

• Writing / Keywording





AAC and Parkinson's

Communication boards, phrase books, picture & pain charts









AAC and Parkinson's

Communication Partners (i.e., US! (2))





AAC and Parkinson's

Communication Partners (i.e., US! (2))





- CAYA was created in 2005 to address the AAC communication needs of students graduating from high school
- Funded by the Ministry of Social Development & Poverty Reduction
- Eligibility expanded to all adults in 2010





- 25 staff:
 - 18 clinical (9 SLPs & 9 SLPAs)
 - 7 admin & support





- Mandate To provide specialized support services and assistive technology to address the communication needs of adults with complex communication disabilities
- Goal To ensure that all eligible individuals have access to the communication tools and professional support to enable them to create and lead an adult life



- CAYA serves all adults (19+ years) who require alternative and augmentative communication (AAC) assistance to communicate
- CAYA works in conjunction with health and community providers across BC to address the communication needs of eligible adults



Loan Bank

- CAYA loans AAC technology to clients with appropriate abilities
- The majority of equipment solutions are tablet based
- Dedicated devices are available for those who require them



Repairs vs Training

- Our Technician provides
 - equipment repair
 - maintenance and parts
 - software upgrades
 - technical support
- Our SLP Assistants provide
 - implementation and training support



Community Service Partners

- Health Authorities
 - e.g. VIHA & the Parkinson's and Movement Disorders Clinic (PMDC)
- Technology for Independent Living (TIL)
- March of Dimes Canada
- GF Strong Rehabilitation Centre
- Parkinson's Society BC (PSBC)
- ALS Society of BC
- SET-BC





Building Community – Clients

- 'Cool Communicators' social and communication support group in Nanaimo that began in 2002 for young adults who use AAC systems
- Groups have now been created in Victoria, Metro Vancouver (Chat Room) and the Okanagan



Who are CAYA Clients?

- Adults who either never had, or have lost the capacity for functional speech
- Causes...
 - at birth (e.g., cerebral palsy)
 - genetic conditions (e.g., Autism, Down's Syndrome)
 - acquired conditions (e.g., brain injury, stroke, ALS, Parkinson's)
- Most CAYA clients have long-standing communication disabilities



Eligibility

- Adults aged 19 years and older who require an AAC system due to the fact that speech does not meet their daily communication needs
 - Note: This does not include individuals whose primary communication disability is a hearing loss. CAYA does <u>not</u> provide hearing aids or assisted listening devices. Contact the Wavefront Centre for Communication Accessibility for support regarding hearing loss.
- Adults aged 19 years and older whose understanding and use of language surpasses their ability to express themselves through speech



Services

- CAYA provides a time-dependent service:
 - Assessment of clients' abilities, communication environments, conversation partners, and the AAC systems (both low- and high-tech) available
 - *Equipment* short term trials are available before long term loans are approved





– Long-term Equipment Loan and Implementation

- once appropriate communication supports are determined, client and team members are trained in their use
- equipment is then loaned on a long-term basis and expected to be used daily by the client
- Training and Resources
 - periodic training opportunities and resources occur
 - focus on the successful implementation of AAC solutions


Services

- Follow-up (annual or client-initiated)

- monitoring and updating
- low-tech and high-tech systems
- as needed

CAYA is *not*.

- Speech therapy
- Long-term nor continuous professional service



Communication Assistance for Youth and Adults

Starting with CAYA

• Begins with a Request for Service form:

https://cayabc.net/caya-forms/

- CAYA operates on 3 intake cycles per year
- Requests for Service are triaged and activated based on a range of individual factors



Service Priorities

- Triage factors include:
 - urgency (terminal diagnosis, imminent loss of housing or employment)
 - geographical factors (visits to remote regions are clustered)
 - transition factors (leaving school, moving living situations)
 - length of time on waitlist
 - other factors as identified



Funding

- Funding for CAYA is included in the BC provincial budget
- Demand for services exceeds CAYA's service capacity
- As a result, there is a wait list for CAYA services



Current Client Statistics – August 2020

Active Clients

- currently receiving intensive professional services, e.g., assessment, implementation of technology, and training.

Monitor Clients

- successfully received technology and service and have completed training. These clients are only contacted for annual follow up.

Waitlist Clients

- prioritised through a number of triage factors: entry date, severity of condition, location, availability of service provision, etc.

213

284

1400



Thank you for joining us!

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